

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\  
 Data File : BF099214.D  
 Acq On : 8 Oct 2017 1:58  
 Operator : SJ/JU  
 Sample : PB103045TB  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 08 03:42:43 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 05 17:20:48 2017  
 Response via : Initial Calibration

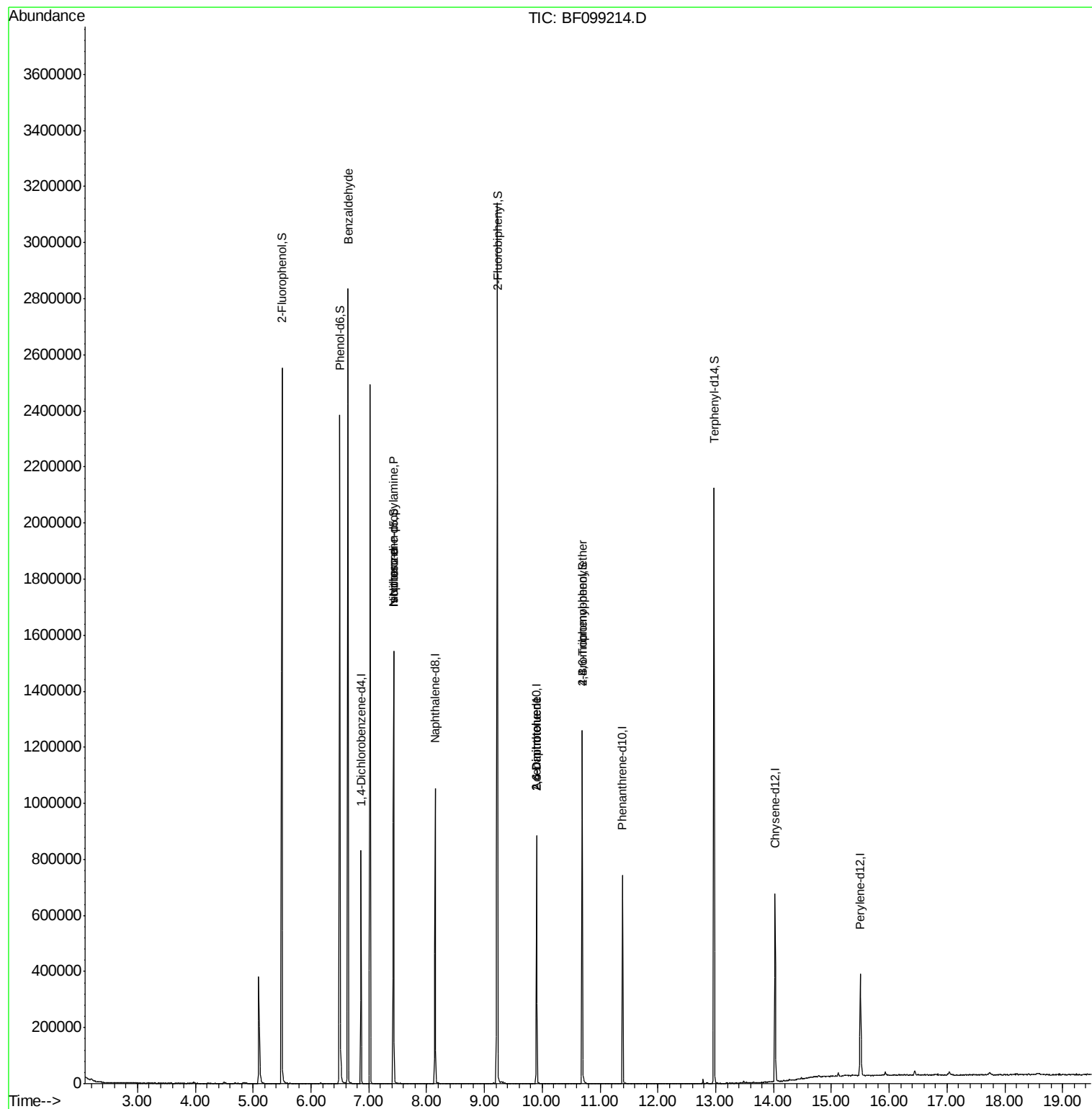
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 121649   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 460231   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 176233   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.39 | 188  | 268090   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.03 | 240  | 207018   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.50 | 264  | 155753   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 847819   | 110.95 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.50  | 99   | 993135   | 105.35 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 561092   | 78.18  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 141223   | 97.93  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 989347   | 93.72  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.97 | 244  | 698693   | 76.76  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.64  | 77   | 16280    | 2.977  | ng    | 85       |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 72197    | 11.995 | ng    | # 73     |
| 25) Isophorone                 | 7.43  | 82   | 561088   | 37.816 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 22122    | 7.640  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 22122    | 5.886  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 9753     | 3.717  | ng    | # 1      |

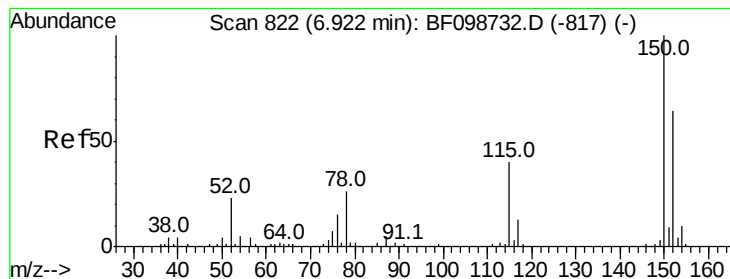
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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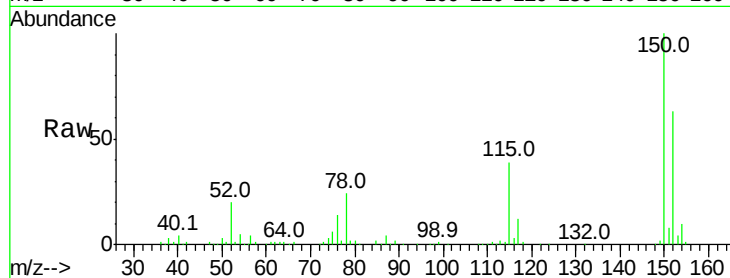


#1

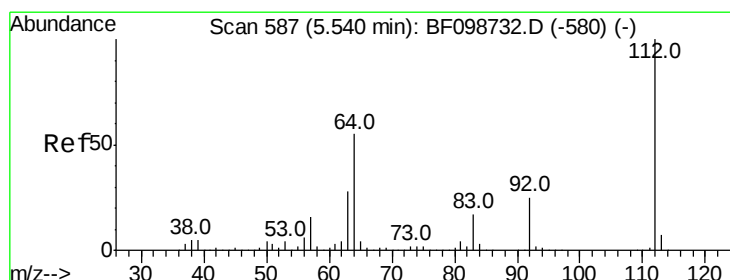
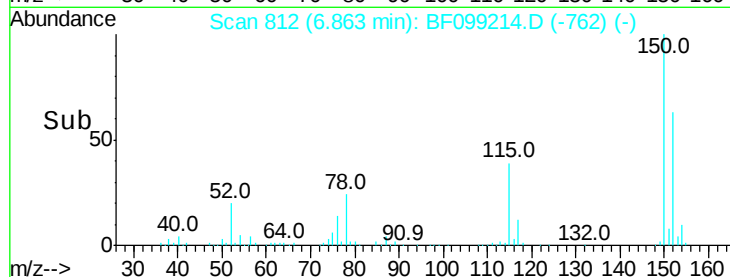
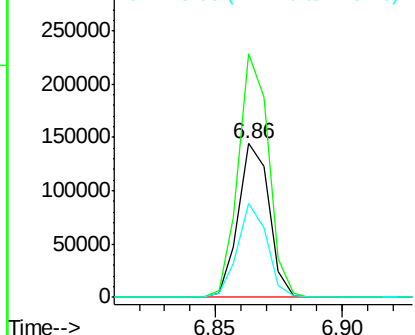
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF099214.D  
Acq: 8 Oct 2017 1:58

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 121649  
Ion Ratio Lower Upper  
152 100  
150 158.6 124.6 186.8  
115 61.4 50.1 75.1



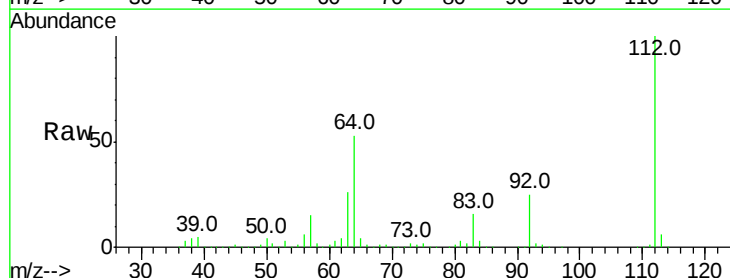
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



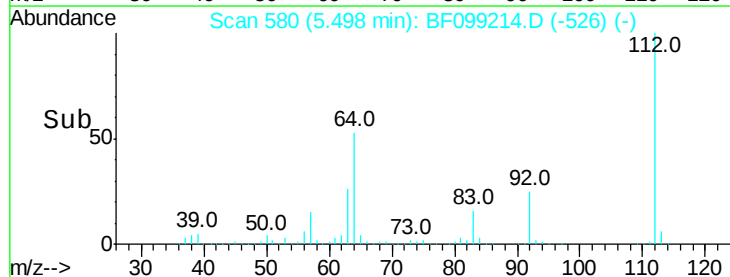
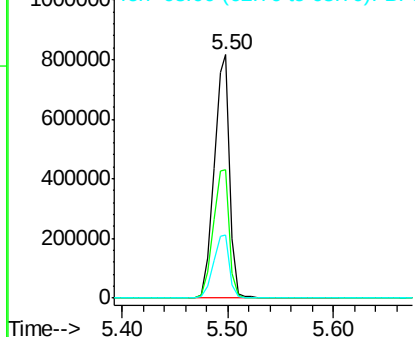
#5

2-Fluorophenol  
Concen: 110.946 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.02 min  
Lab File: BF099214.D  
Acq: 8 Oct 2017 1:58

Tgt Ion:112 Resp: 847819  
Ion Ratio Lower Upper  
112 100  
64 52.7 47.9 71.9  
63 26.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 105.351 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.00 min

Lab File: BF099214.D

Acq: 8 Oct 2017 1:58

Instrument :

BNA\_F

ClientSampled :

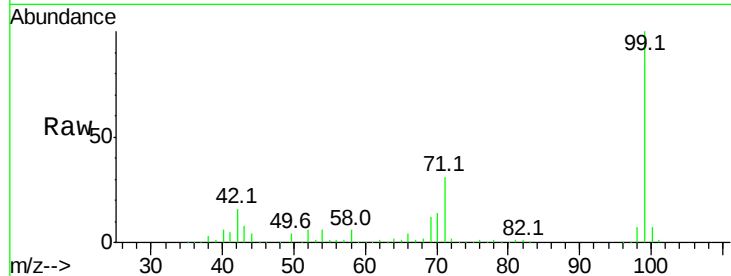
Tot Ion: 99 Resp: 993135

Ion Ratio Lower Upper

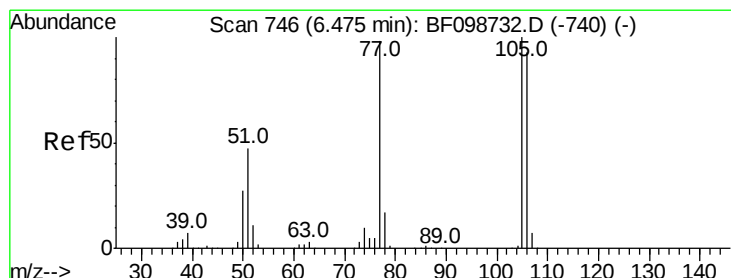
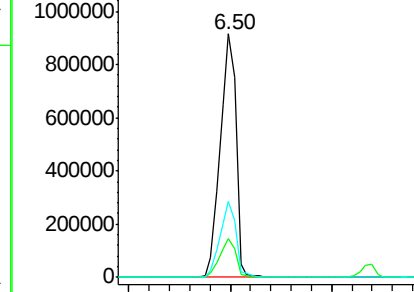
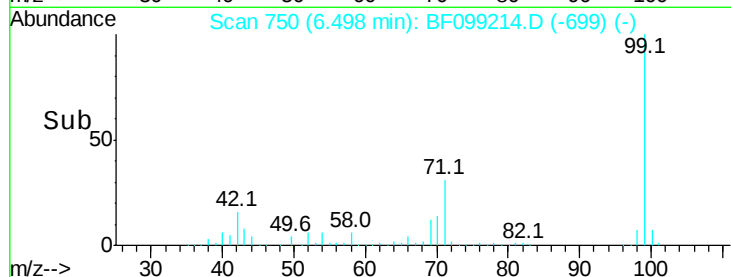
99 100

42 15.7 14.5 21.7

71 30.9 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 2.977 ng

RT: 6.64 min Scan# 774

Delta R.T. 0.22 min

Lab File: BF099214.D

Acq: 8 Oct 2017 1:58

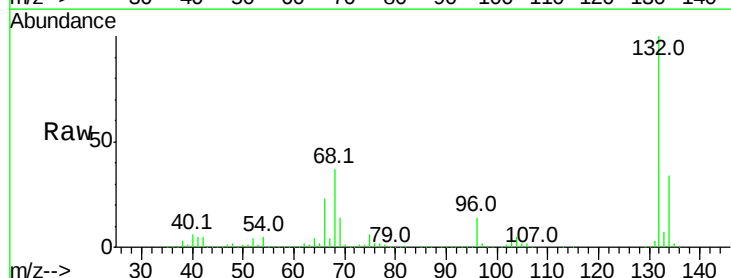
Tgt Ion: 77 Resp: 16280

Ion Ratio Lower Upper

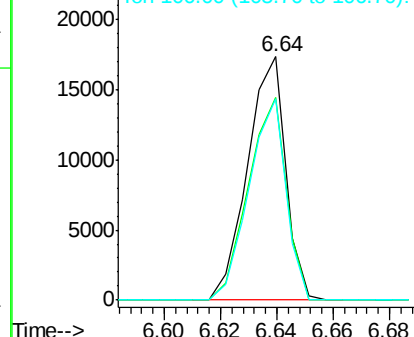
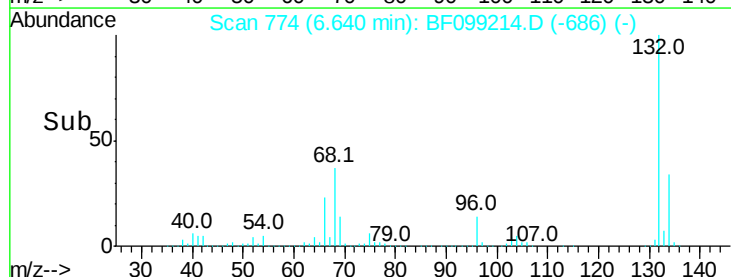
77 100

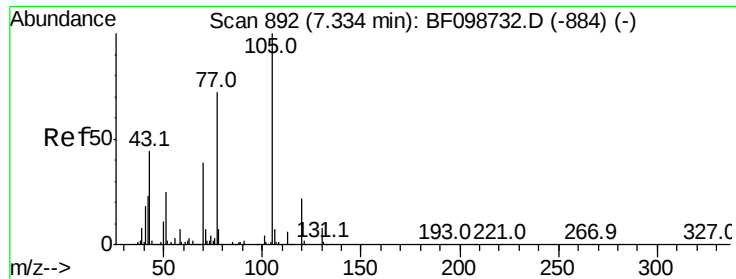
105 83.2 81.1 121.1

106 82.6 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): B  
Ion 106.00 (105.70 to 106.70): B

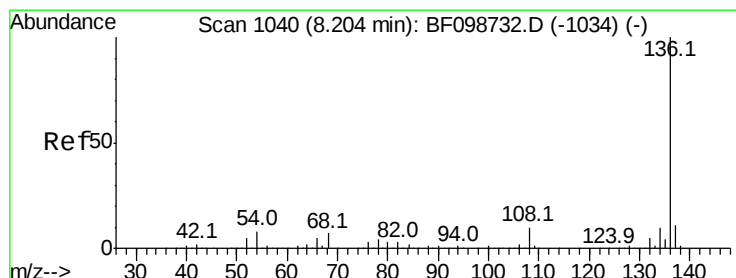
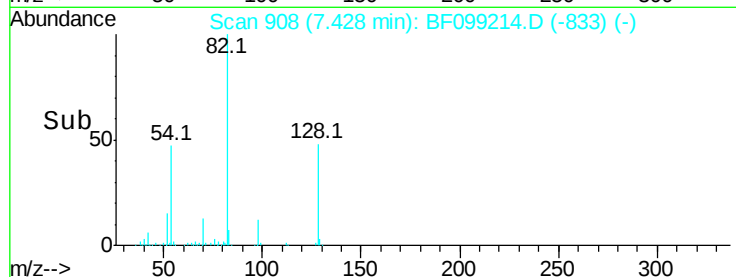
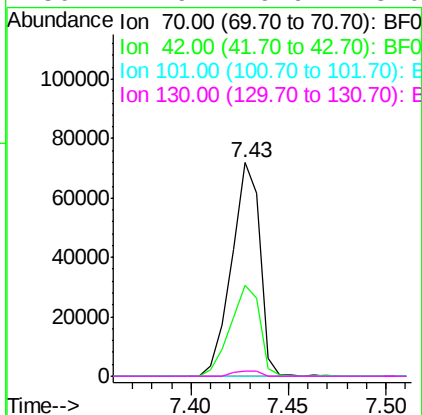
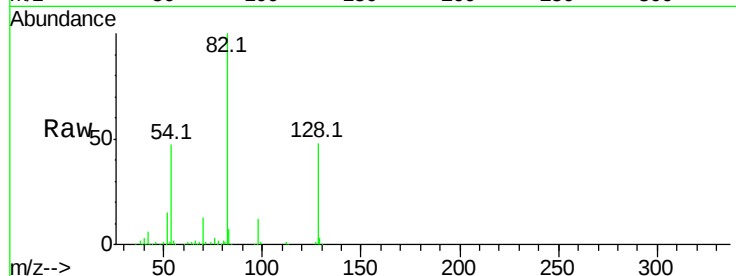




#19  
n-Nitroso-di-n-propylamine  
Concen: 11.995 ng  
RT: 7.43 min Scan# 908  
Delta R.T. 0.14 min  
Lab File: BF099214.D  
Acq: 8 Oct 2017 1:58

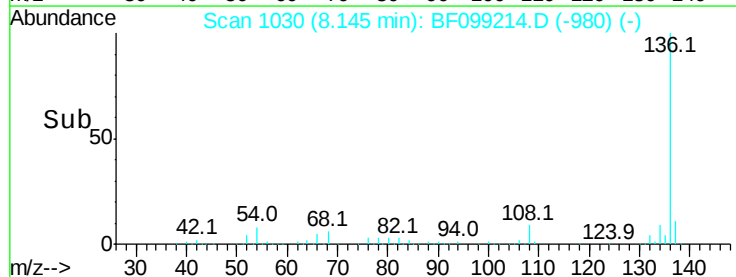
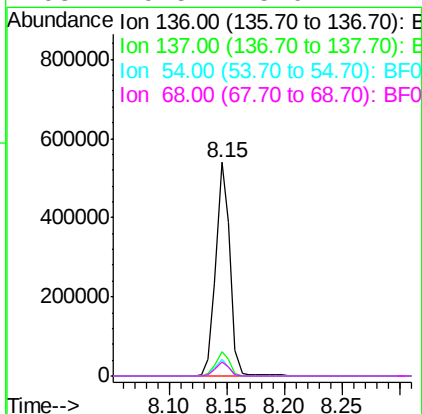
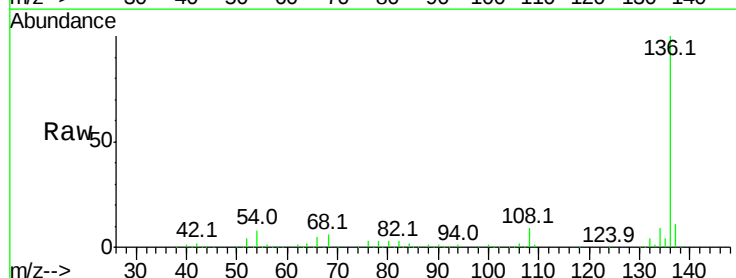
Instrument :  
BNA\_F  
ClientSampleId :

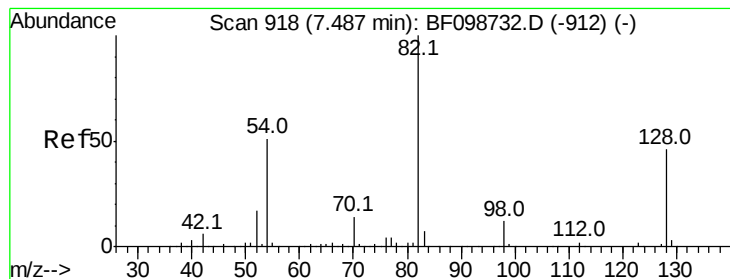
Tot Ion: 70 Resp: 72197  
Ion Ratio Lower Upper  
70 100  
42 42.4 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.6 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF099214.D  
Acq: 8 Oct 2017 1:58

Tgt Ion: 136 Resp: 460231  
Ion Ratio Lower Upper  
136 100  
137 11.5 8.9 13.3  
54 7.8 6.6 9.8  
68 6.5 5.0 7.4





#23

Nitrobenzene-d5

Concen: 78.184 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF099214.D

Acq: 8 Oct 2017 1:58

Instrument :

BNA\_F

ClientSampled :

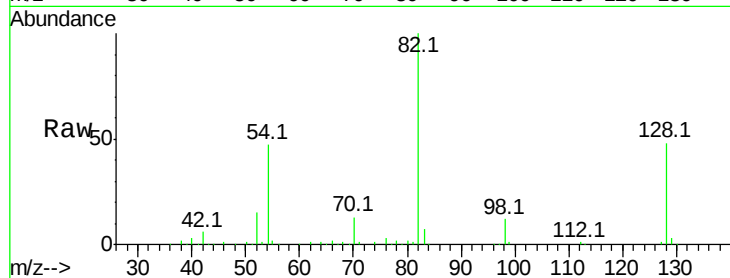
Tot Ion: 82 Resp: 561092

Ion Ratio Lower Upper

82 100

128 47.6 36.1 54.1

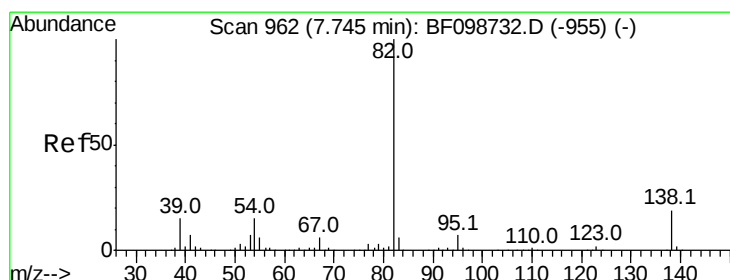
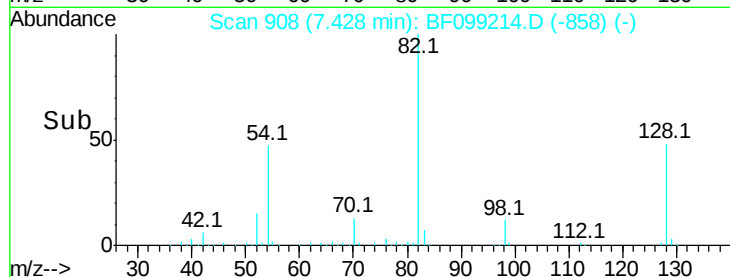
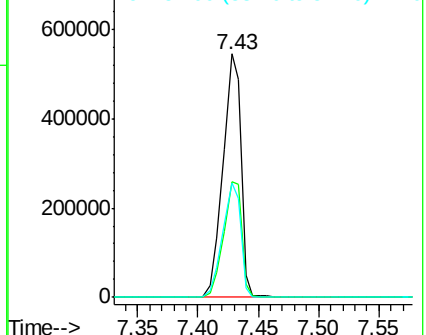
54 47.1 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 37.816 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.26 min

Lab File: BF099214.D

Acq: 8 Oct 2017 1:58

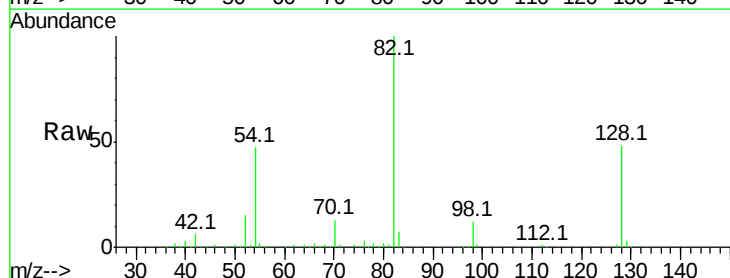
Tgt Ion: 82 Resp: 561088

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

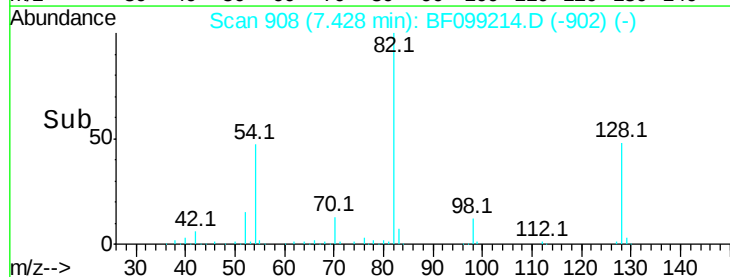
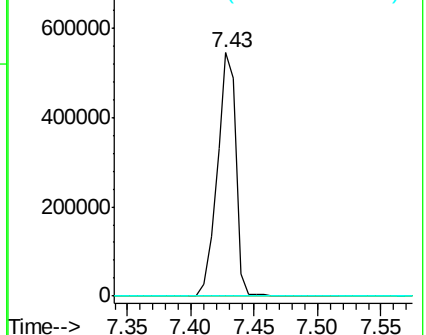
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

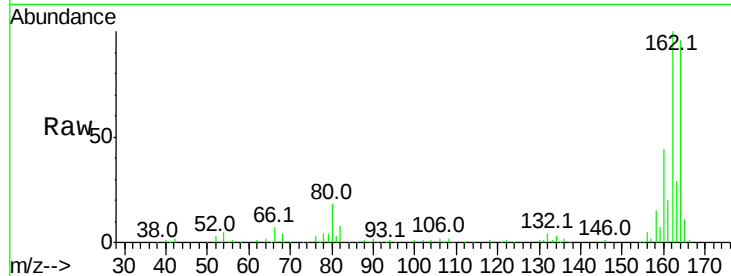




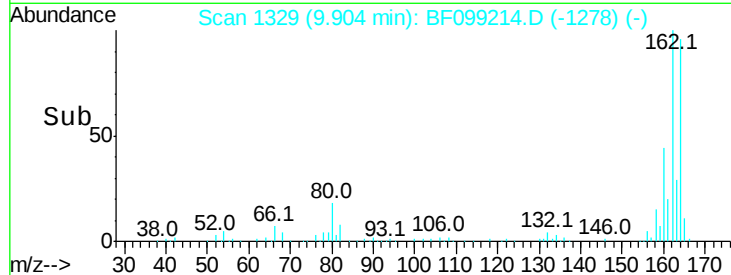
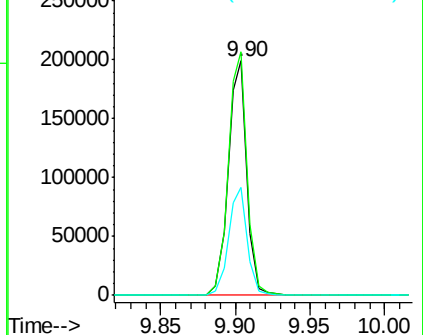
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1329  
Delta R.T. 0.00 min  
Lab File: BF099214.D  
Acq: 8 Oct 2017 1:58

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:164 Resp: 176233  
Ion Ratio Lower Upper  
164 100  
162 104.0 86.1 129.1  
160 46.2 38.3 57.5

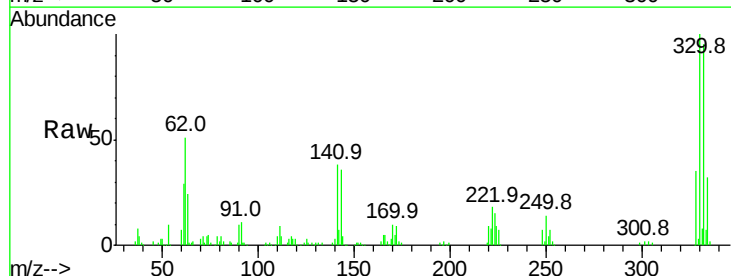


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

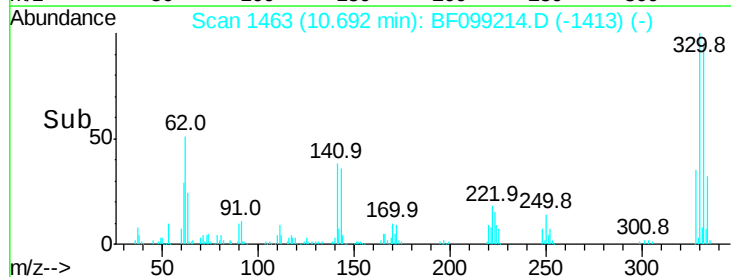
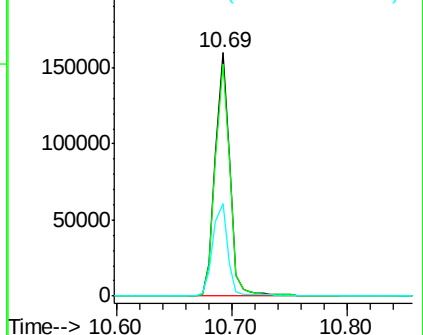


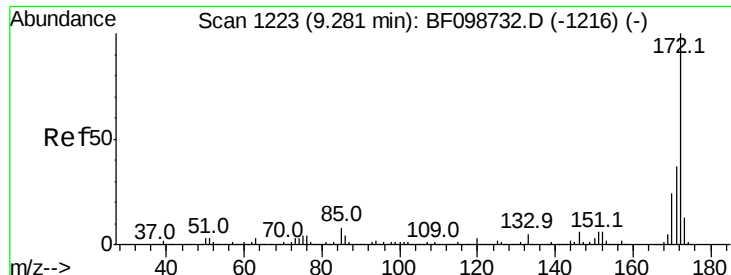
#41  
2,4,6-Tribromophenol  
Concen: 97.931 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. -0.01 min  
Lab File: BF099214.D  
Acq: 8 Oct 2017 1:58

Tgt Ion:330 Resp: 141223  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.0 115.6  
141 39.6 29.9 44.9



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

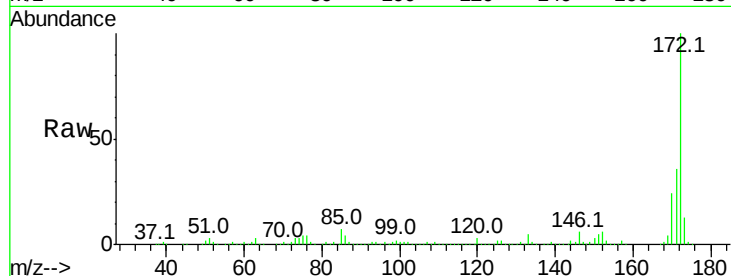




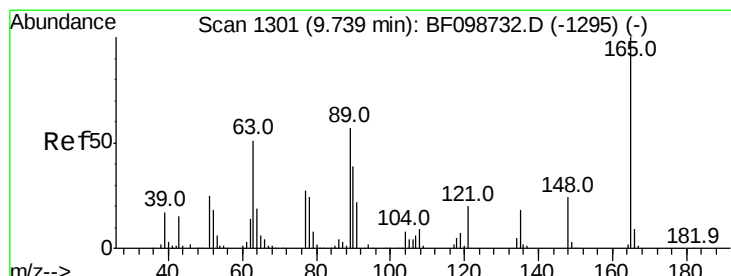
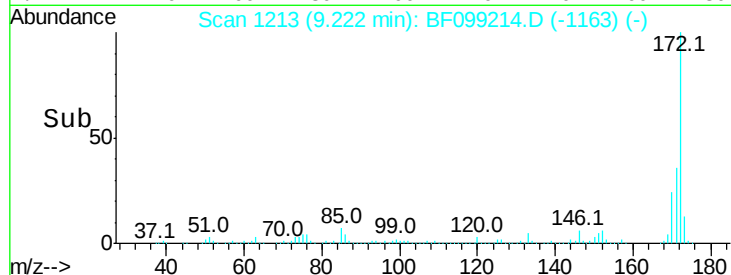
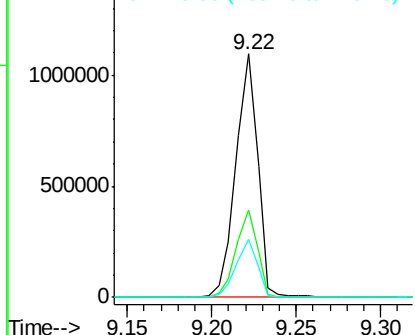
#44  
 2-Fluorobiphenyl  
 Concen: 93.719 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.01 min  
 Lab File: BF099214.D  
 Acq: 8 Oct 2017 1:58

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.7  | 44.5  |
| 170     | 24.1  | 19.6  | 29.4  |

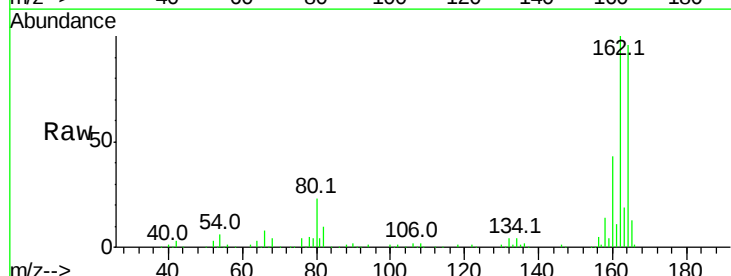


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

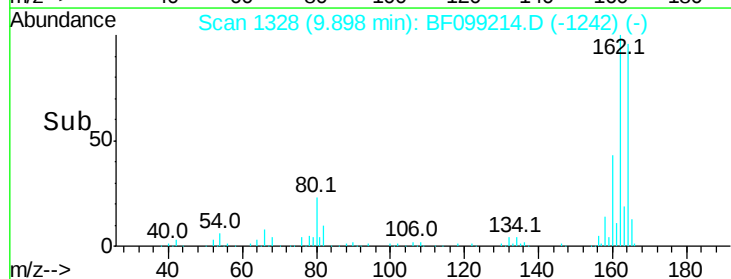
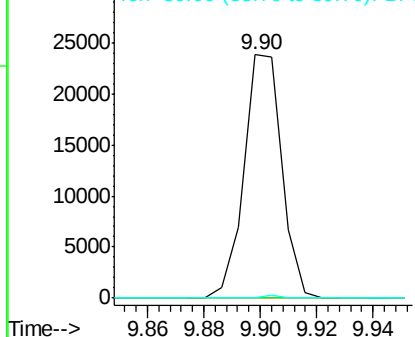


#50  
 2,6-Dinitrotoluene  
 Concen: 7.640 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. 0.21 min  
 Lab File: BF099214.D  
 Acq: 8 Oct 2017 1:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

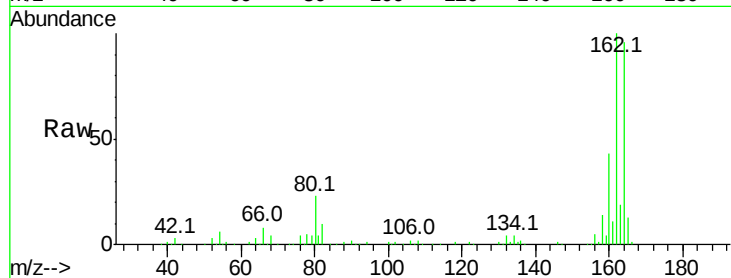




#56  
 2,4-Dinitrotoluene  
 Concen: 5.886 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.20 min  
 Lab File: BF099214.D  
 Acq: 8 Oct 2017 1:58

Instrument :  
 BNA\_F  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 22122      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.0   | 36.4 54.6# |
| 89          | 0.0   | 57.8 86.6# |
| 182         | 0.0   | 1.6 2.4#   |

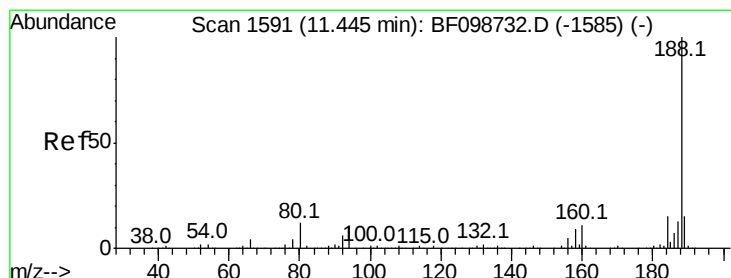
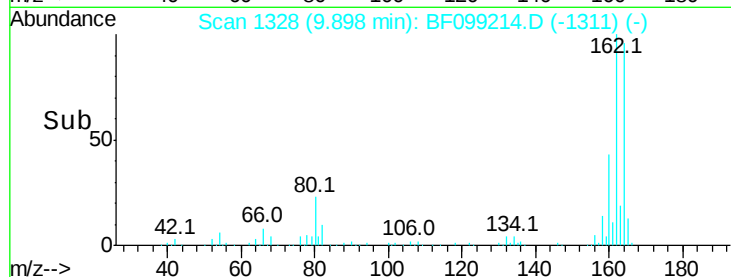
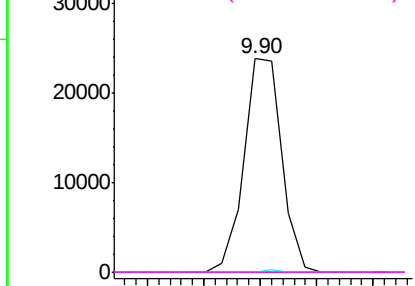


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

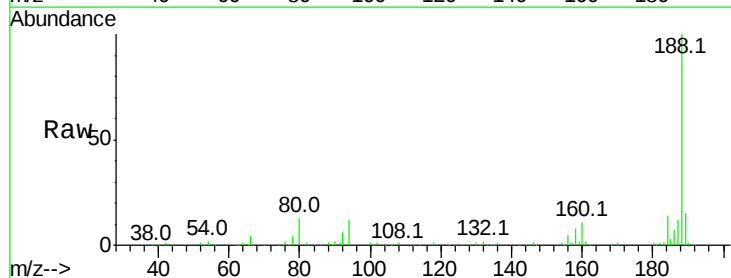
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.01 min  
 Lab File: BF099214.D  
 Acq: 8 Oct 2017 1:58

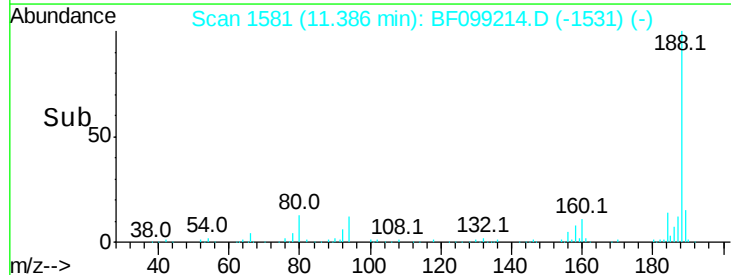
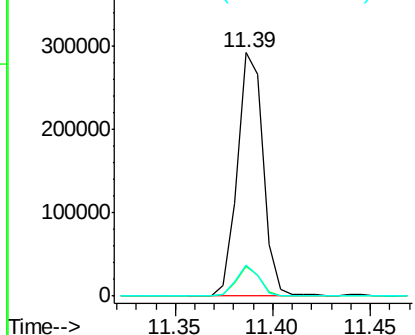
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 268090   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 12.1  | 8.5 12.7 |
| 80          | 12.5  | 9.2 13.8 |

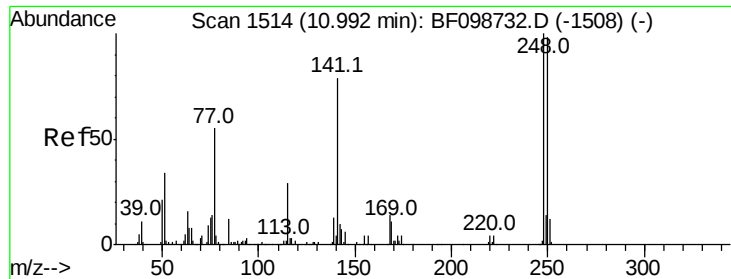


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

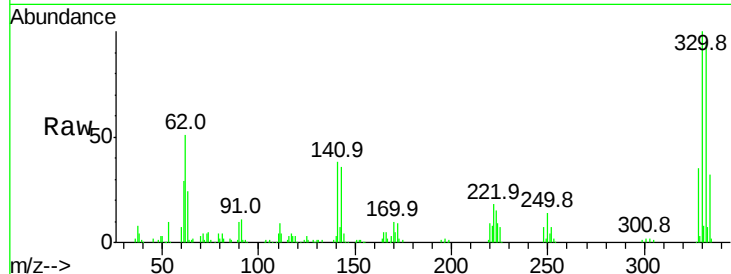




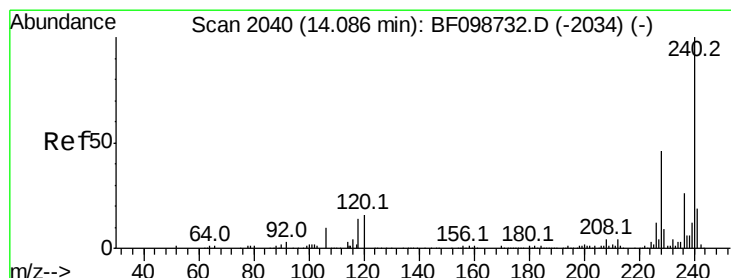
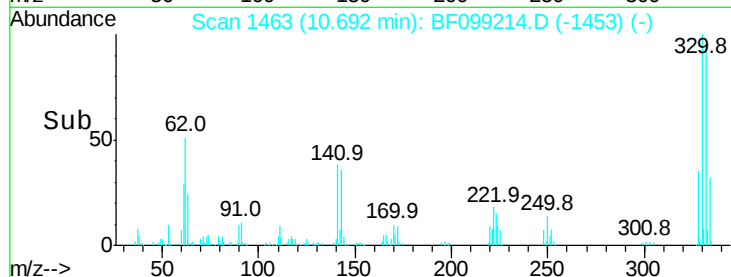
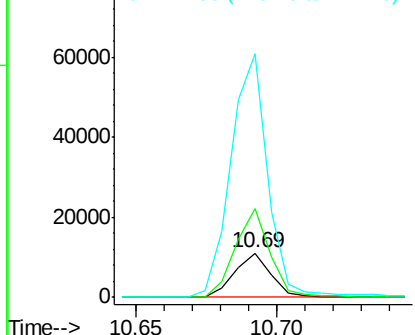
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.717 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.24 min  
 Lab File: BF099214.D  
 Acq: 8 Oct 2017 1:58

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 9753  
 Ion Ratio Lower Upper  
 248 100  
 250 199.6 76.9 115.3#  
 141 551.4 74.4 111.6#

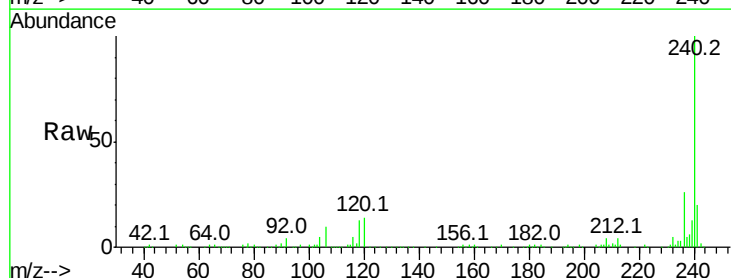


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

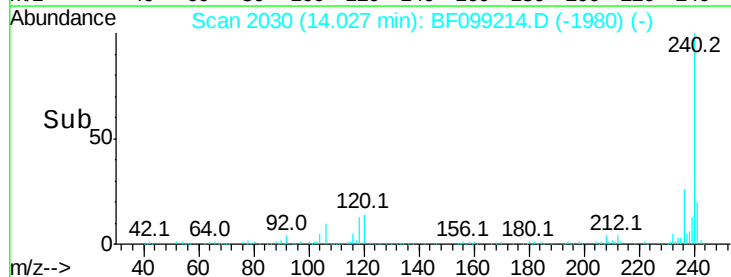
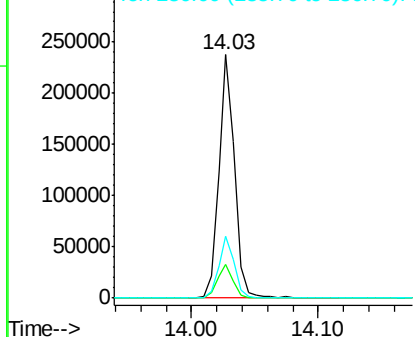


#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.03 min Scan# 2030  
 Delta R.T. -0.01 min  
 Lab File: BF099214.D  
 Acq: 8 Oct 2017 1:58

Tgt Ion:240 Resp: 207018  
 Ion Ratio Lower Upper  
 240 100  
 120 13.8 9.5 14.3  
 236 25.5 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 76.755 ng

RT: 12.97 min Scan# 1851

Delta R.T. 0.00 min

Lab File: BF099214.D

Acq: 8 Oct 2017 1:58

Instrument :

BNA\_F

ClientSampleId :

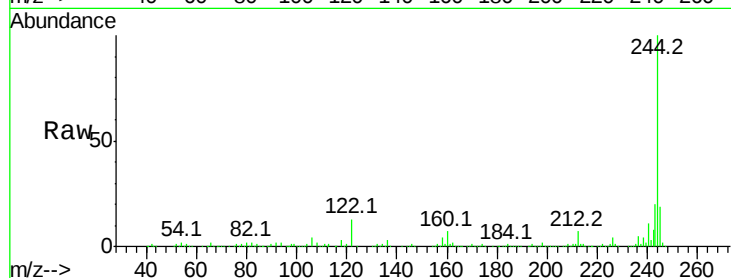
Tot Ion:244 Resp: 698693

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

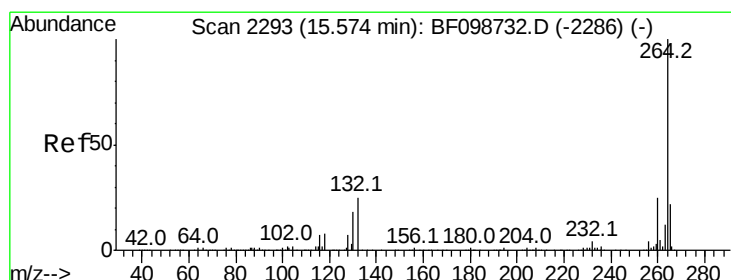
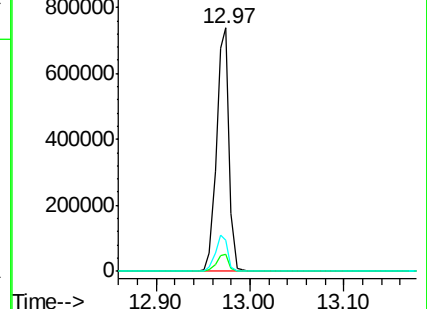
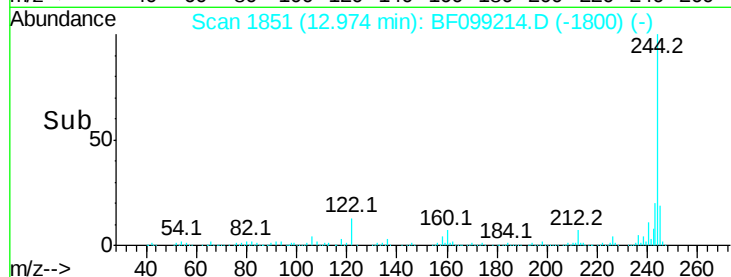
122 12.8 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2281

Delta R.T. 0.00 min

Lab File: BF099214.D

Acq: 8 Oct 2017 1:58

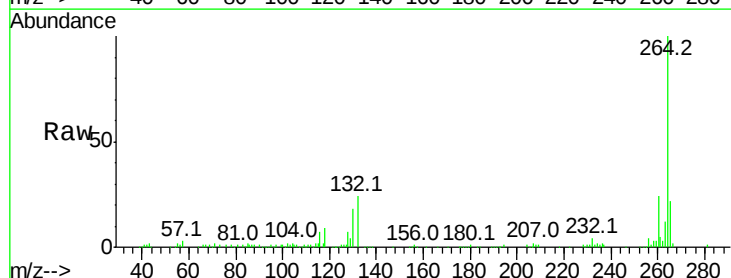
Tgt Ion:264 Resp: 155753

Ion Ratio Lower Upper

264 100

260 24.5 19.2 28.8

265 21.5 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

